GE Electronic TUBE — KEN-RAD

6AH6

Description and Rating

RADIO-FREQUENCY AMPLIFIER PENTODE

GENERAL DESCRIPTION

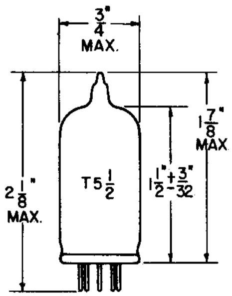
Principal Application: The 6AH6 is a miniature sharp-cutoff pentode. Its high transconductance and low input and output capacitances adapt it to use as a wide-band amplifier or as a reactance tube.

Cathode:	Coated Unipotential
Heater Voltage (A-C or D-C)	6.3 Volts
Heater Current	0.45 Ampere
Envelope:	T-5½, Glass
Base:	E7-1, Miniature Button 7-Pin
Mounting Position:	Any

Direct Interelectrode Capacitances:

	Without Shield	With Shield#	
Grid 1 to Plate (Max)	0.030	0.020	μμf
Input	10	10	μμf
Output	2.0	3.6	μμf

PHYSICAL DIMENSIONS

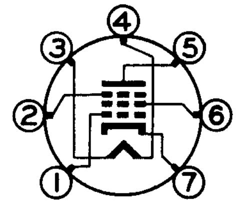


RTMA 5-2

TERMINAL CONNECTIONS

Pin 1 - Grid Number 1
Pin 2 - Grid Number 3 (Suppressor)
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid Number 2 (Screen)
Pin 7 - Cathode

BASING DIAGRAM



RTMA 7CC
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES:

Plate Voltage	300	Volts
Screen Supply Voltage	300	Volts
Screen Voltage	150	Volts
Plate Dissipation	3.2	Watts
Screen Dissipation	0.4	Watt
Cathode Current	13	Milliamperes
Heater-Cathode Voltage	90	Volts

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A_1 AMPLIFIER

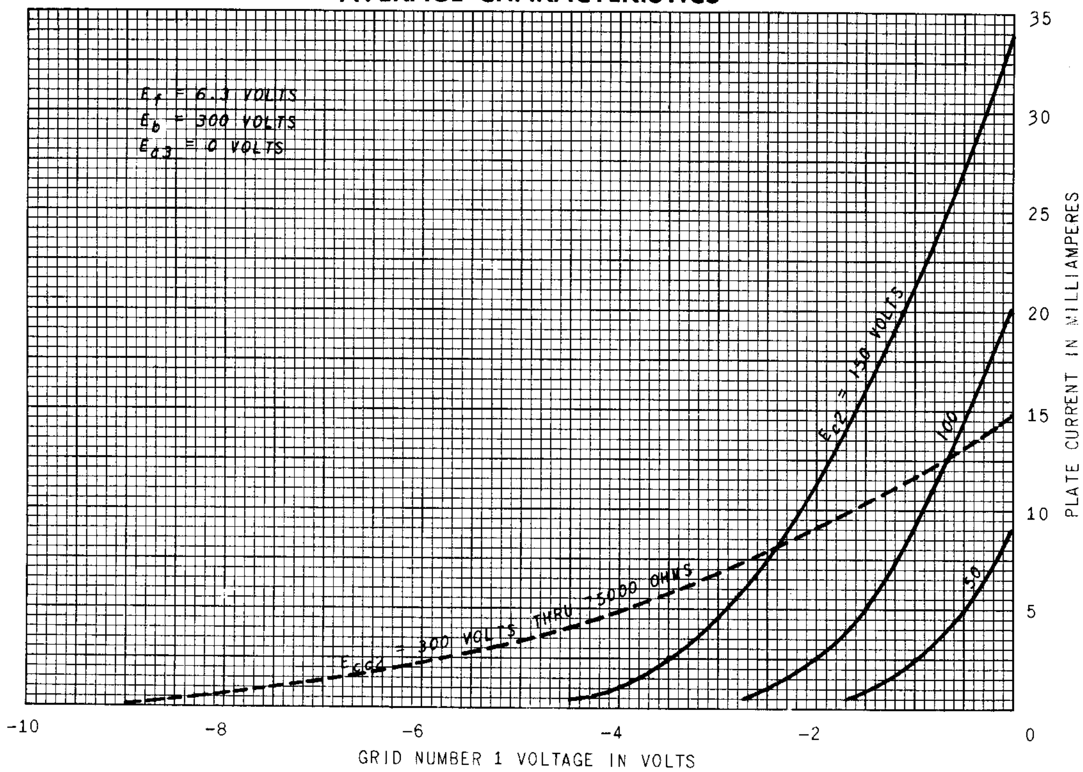
	Pentode Connection	Triode Connection**	
Plate Voltage	300	150	Volts
Suppressor Voltage*	0	---	Volts
Screen Voltage	150	---	Volts
Cathode Bias Resistor	160	160	Ohms
Amplification Factor	---	40	
Plate Resistance (Approx)	0.5	0.0036	Megohm
Transconductance	9000	11000	Micromhos
Plate Current	10	12.5	Milliamperes
Screen Current	2.5	---	Milliamperes
Grid Number 1 Voltage (Approx) for I_b = 10 Microamperes	-7	-7	Volts

With external shield #316 connected to pin 7
* *Pin 2 connected to pin 7 at socket*
** *For triode connection, connect grids 2 and 3 to plate.*

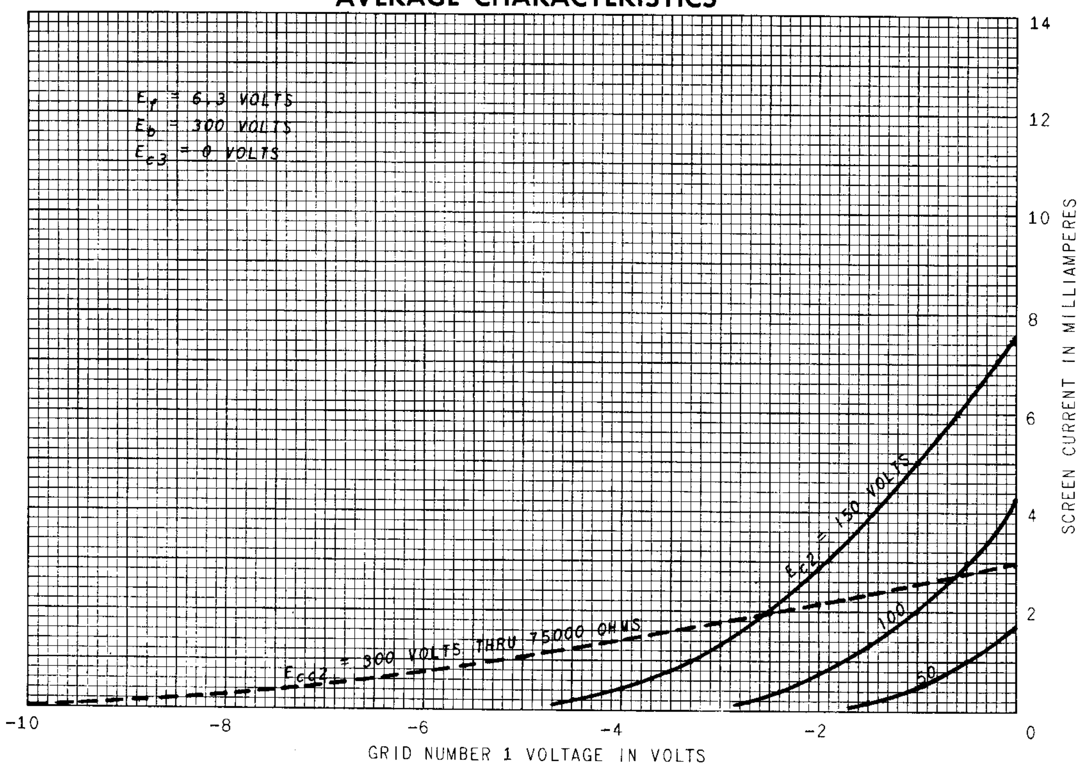
Note: Grid number 3 has practically no control characteristics, and it is not intended to be used as a control electrode. Its transconductance to the plate approximates 2 micromhos and the mu is 0.7 to 1.0.

Supersedes ET-T520 dated 11-47

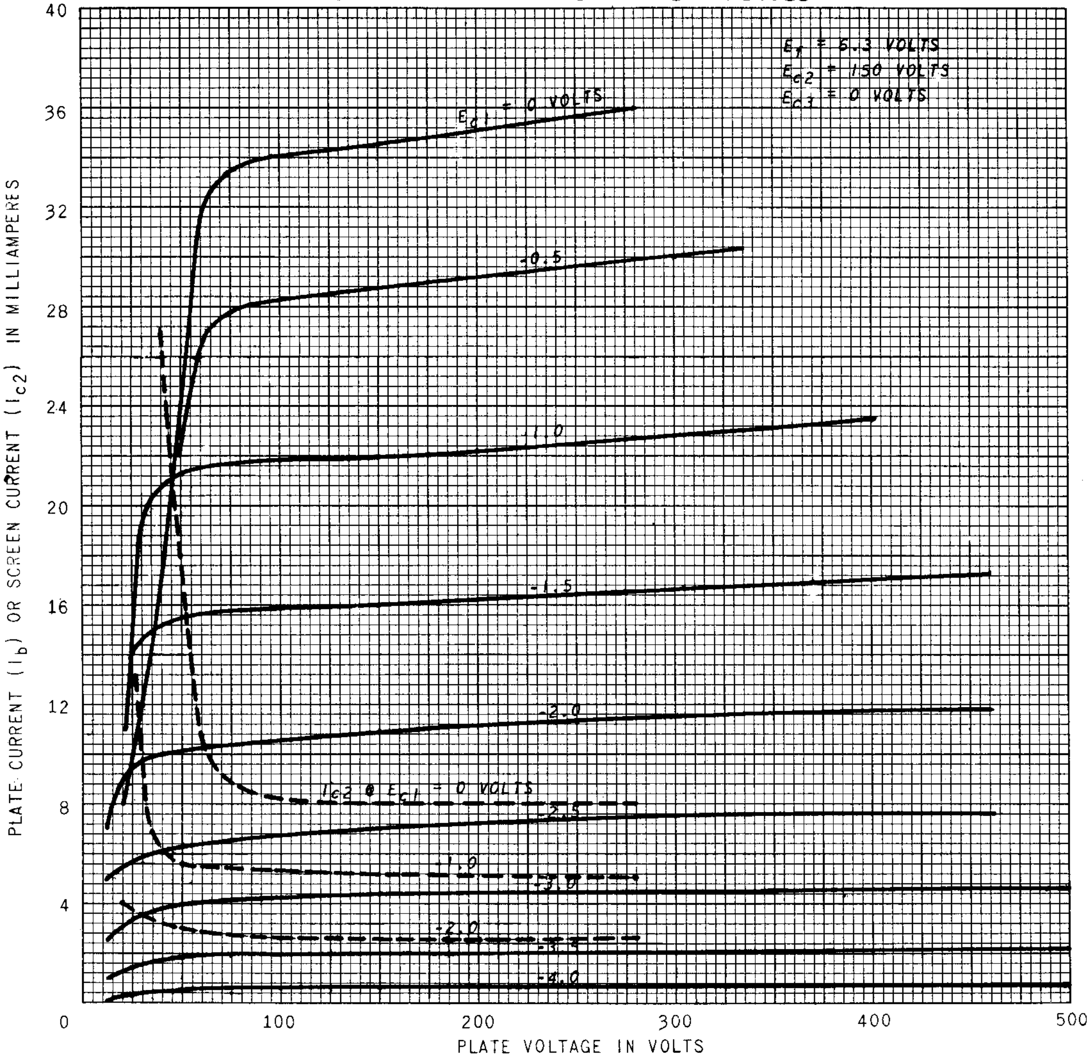
AVERAGE CHARACTERISTICS



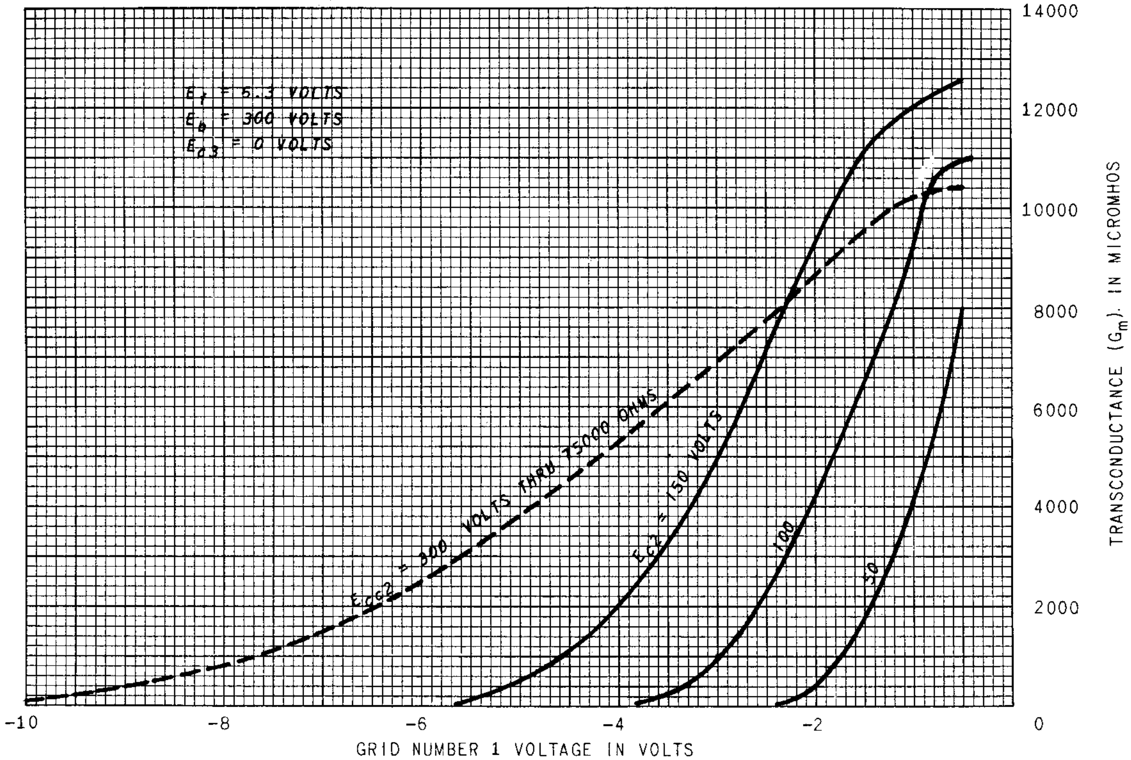
AVERAGE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



Tube Divisions, Electronics Department

GENERAL ELECTRIC

Schenectady, N. Y.